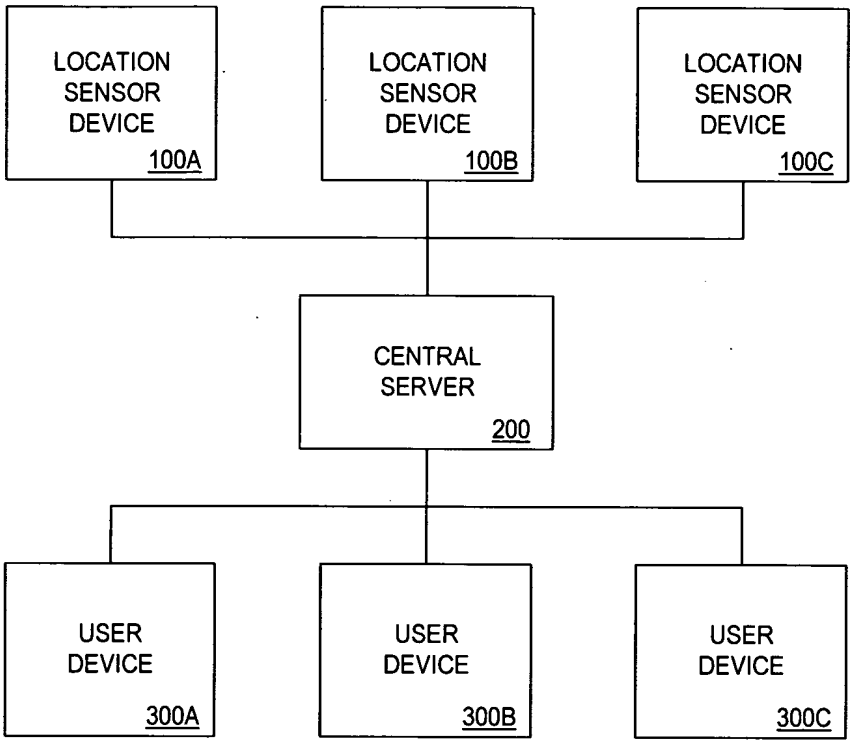

LOCATION SENSOR DEVICE
100A
LOCATION SENSOR DEVICE
100B
LOCATION SENSOR DEVICE
100C
CENTRAL SERVER
200
USER DEVICE
300A
USER DEVICE
300B
USER DEVICE
300C

FIG. 1

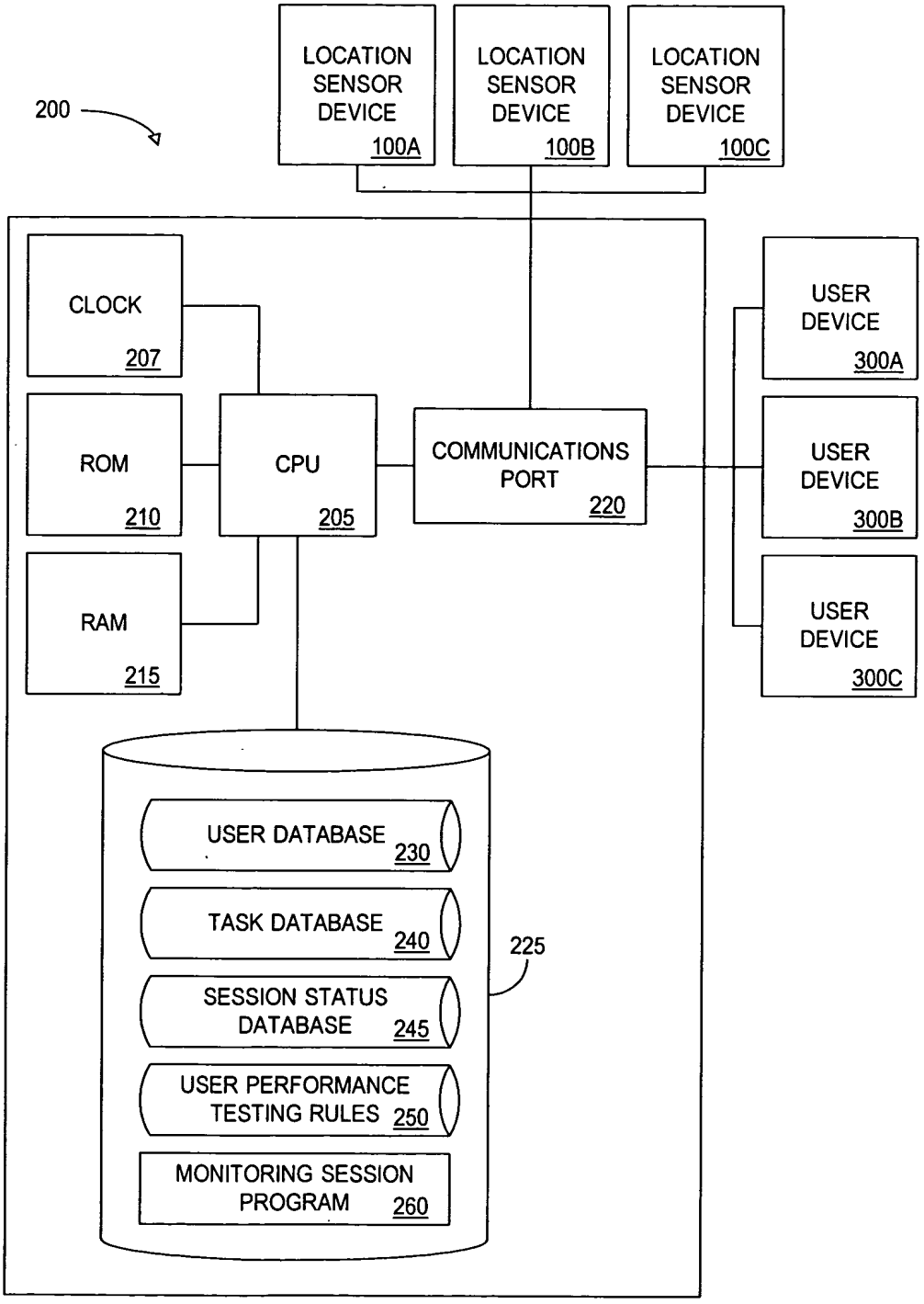

200
LOCATION SENSOR DEVICE 100A
LOCATION SENSOR DEVICE 100B
LOCATION SENSOR DEVICE 100C
CLOCK 207
ROM 210
CPU 205
COMMUNICATIONS PORT 220
RAM 215
USER DEVICE 300A
USER DEVICE 300B
USER DEVICE 300C
USER DATABASE 230
TASK DATABASE 240
SESSION STATUS DATABASE 245
USER PERFORMANCE TESTING RULES 250
MONITORING SESSION PROGRAM 260
225

FIG. 2

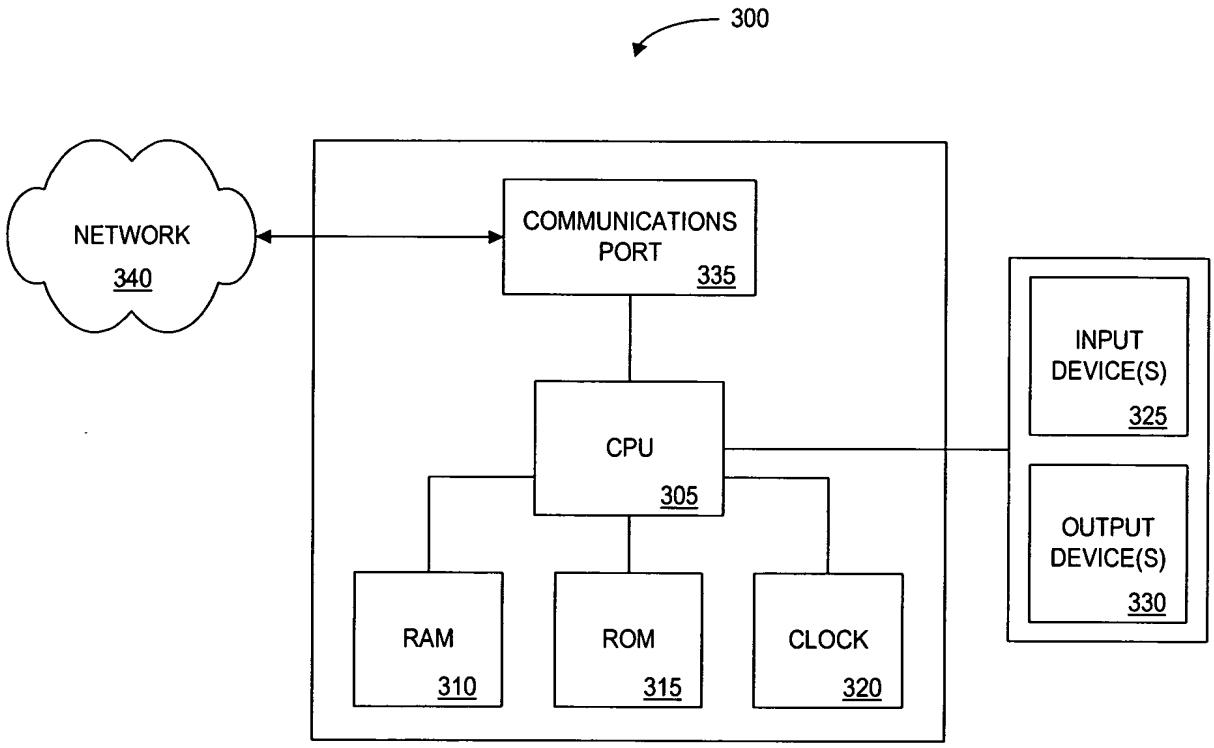
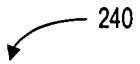

300
NETWORK
340
COMMUNICATIONS PORT
335
CPU
305
RAM
310
ROM
315
CLOCK
320
INPUT DEVICE(S)
325
OUTPUT DEVICE(S)
330

FIG. 3

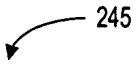
USER IDENTIFIER 410	USER RATING 420	ACCOUNT BALANCE 430
BSMITH	0	- $39.95
SJOHNSON	8	+ $498.60
RMARTIN	7	+ $192.55

FIG. 4



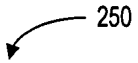
TASK IDENTIFIER 505	SENSOR LOCATIONS 510	SENSOR ADDRESS 515	LOCATION OWNER 520	PAY RATE 525	RULE(S) 530	SHIFT(S) 535	EMERGENCY PROCEDURES 540	FULLY ASSIGNED? 545
12345	FLEET BANK, HAMDEN, CT BRANCH	WWW.FLEET BANK.COM/ BRANCH3/CAM1	FLEET CORPORATION, HARTFORD, CT	$5.00/ HOUR	3 USERS	1/1/98 12:00 AM - 3:00 AM	CLICK EMERGENCY BUTTON ON ISP FRAME	YES
					UP TO 2 USERS	1/1/98 3:01 AM - 6:00 AM		NO
12346	17 MAIN ST. ANYTOWN, CT 06999	(203) 555-1212	BOB OSBORNE	$4.50/ HOUR	USER RATING > 6	1/2/98 9:00 AM - 5:00 PM	CALL ANYTOWN POLICE DEPT. AT (203) 981-3987	NO

FIG. 5



TASK IDENTIFIER 605	SHIFT 610	USER IDENTIFIER(S) 615	STATUS 620	PERFORMANCE RESULTS 625
12345	1/1/98 12:00 AM - 3:00 AM	RMARTIN SGAVIN DBYRD	COMPLETED	- ALL TEST COMMUNICATIONS POSTITIVE - NO EMERGENCIES
12345	1/1/98 3:01 AM - 6:00 AM	SJOHNSON	IN PROGRESS	- FAILURE TO RESPOND TO TWO TEST COMMUNICATIONS
12346	1/2/98 9:00 AM - 5:00 PM	RMARTIN	N/A	N/A

FIG. 6



TASK IDENTIFIER 705	TEST COMMUNICATION 710	TEST COMMUNICATION INTERVALS 715	REQUIRED RESPONSE TIME 720	REQUIRED RESPONSE 725
12345	C://TESTCOM/12345/CLIP1 ("STAGED EMERGENCY")	RANDOM	10 SECONDS	CLICK 911 BUTTON
12346	C://TESTCOM/12346/ QUESTIONSET1 ("QUESTIONS")	EVERY 5 MINUTES	15 SECONDS	CORRECT ANSWER CHOICE

FIG. 7

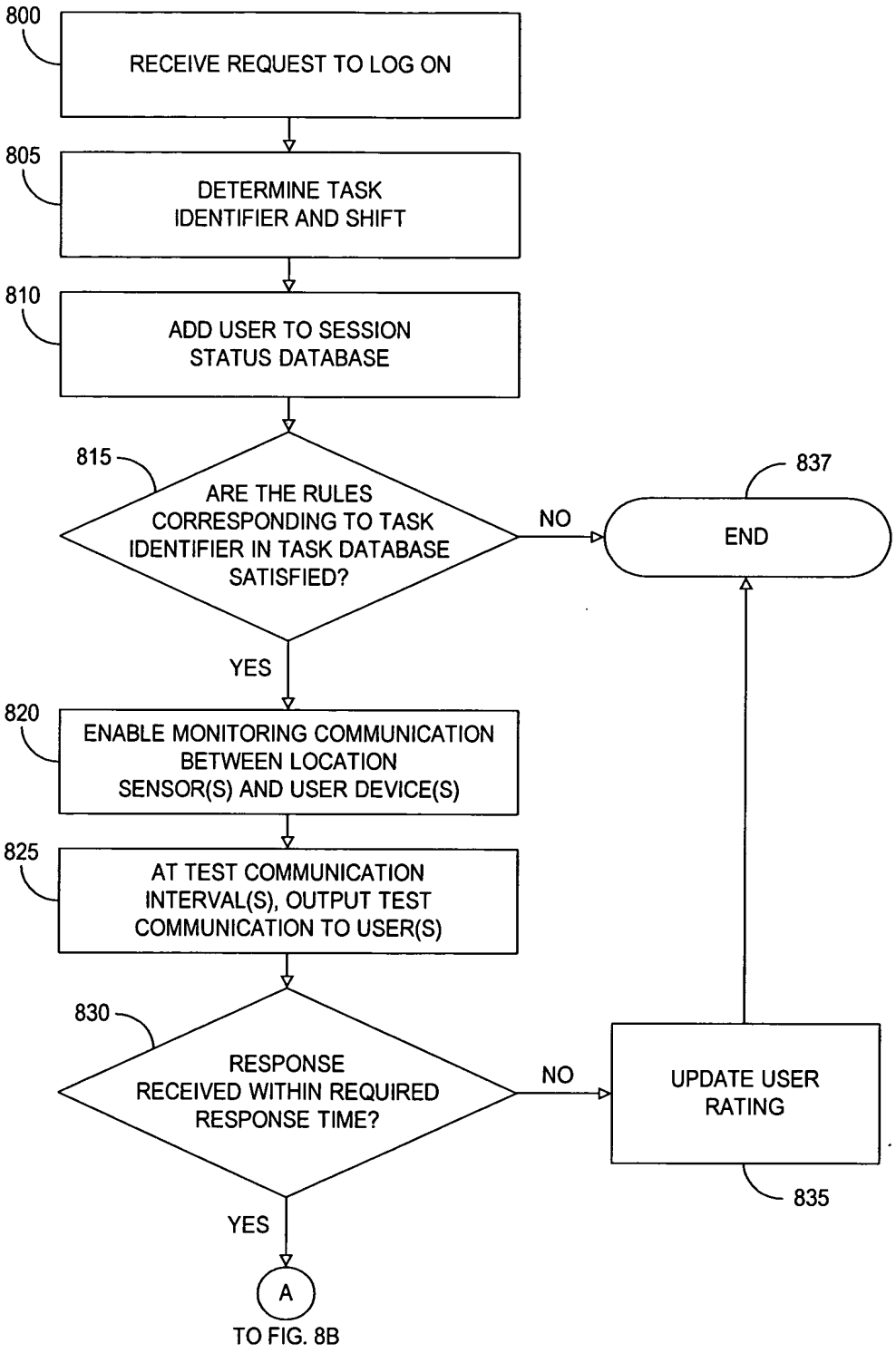

800
RECEIVE REQUEST TO LOG ON
805
DETERMINE TASK IDENTIFIER AND SHIFT
810
ADD USER TO SESSION STATUS DATABASE
815
ARE THE RULES CORRESPONDING TO TASK IDENTIFIER IN TASK DATABASE SATISFIED?
NO
837
END
YES
820
ENABLE MONITORING COMMUNICATION BETWEEN LOCATION SENSOR(S) AND USER DEVICE(S)
825
AT TEST COMMUNICATION INTERVAL(S), OUTPUT TEST COMMUNICATION TO USER(S)
830
RESPONSE RECEIVED WITHIN REQUIRED RESPONSE TIME?
NO
UPDATE USER RATING
835
YES
A
TO FIG. 8B

FIG. 8A

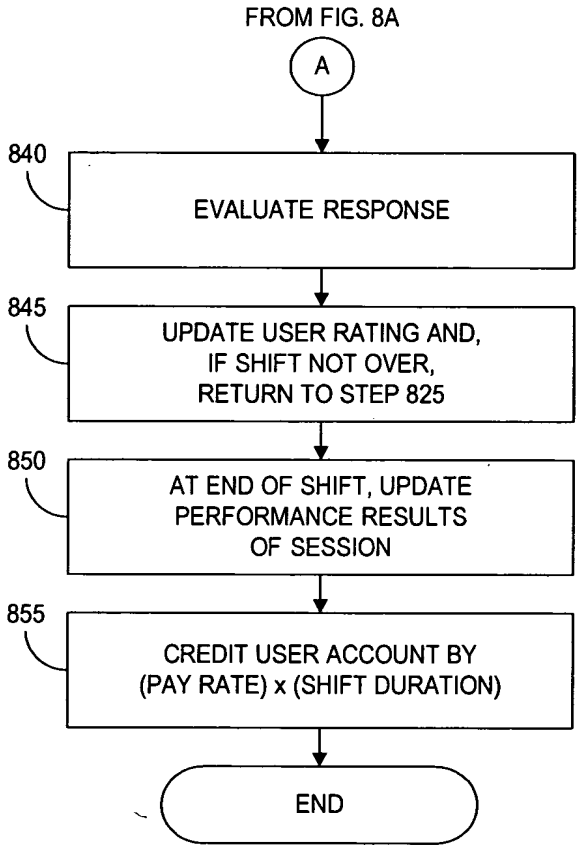

FROM FIG. 8A
A
840
EVALUATE RESPONSE
845
UPDATE USER RATING AND,
IF SHIFT NOT OVER,
RETURN TO STEP 825
850
AT END OF SHIFT, UPDATE
PERFORMANCE RESULTS
OF SESSION
855
CREDIT USER ACCOUNT BY
(PAY RATE) x (SHIFT DURATION)
END

FIG. 8B

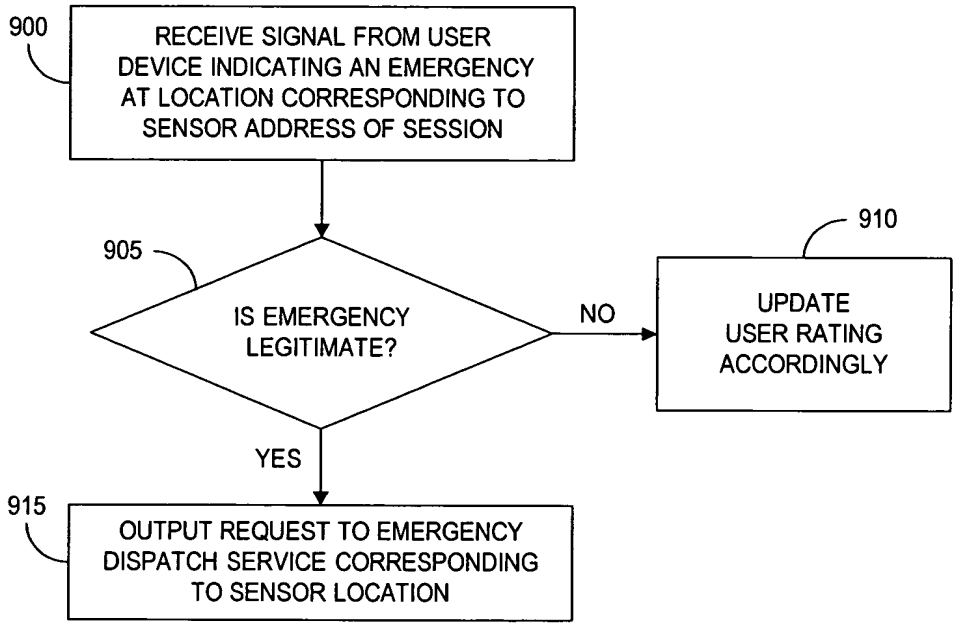

900
RECEIVE SIGNAL FROM USER DEVICE INDICATING AN EMERGENCY AT LOCATION CORRESPONDING TO SENSOR ADDRESS OF SESSION
905
IS EMERGENCY LEGITIMATE?
NO
910
UPDATE USER RATING ACCORDINGLY
YES
915
OUTPUT REQUEST TO EMERGENCY DISPATCH SERVICE CORRESPONDING TO SENSOR LOCATION

FIG. 9